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(54) Title: MANUFACTURING METHOD OF BIO-DIESEL OIL



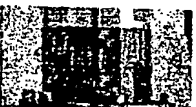
◀ Methyl ester 0h, 0 min. ▶



◀ Methyl ester 0h, 0.5 min. ▶



◀ Methyl ester 0h, 1 min. ▶



◀ Methyl ester 0h, 1.5 min. ▶



◀ Methyl ester 0h, 2 min. ▶



◀ Methyl ester 0h, 5 min. ▶

(57) Abstract: The object of this invention is to provide a method of producing a bio-diesel oil in a great amount in a relatively short time, in which oil/fat and alcohol, used as reactants, are homogeneously mixed with each other to form a single liquid phase mixture which effectively react with each other. The method includes transesterifying the oil/fat and alcohol in the presence of alkyl ester. Additionally, in the method, alkyl ester is added to a mixture of the oil/fat and alcohol by refluxing alkyl ester as a product to the mixture. Furthermore, the method includes (a) an acidic catalyst, and (b) transesterifying the pre-esterified oil/fat with alcohol in the presence of alkyl ester.

WO 2004/085585 A1



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